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1 METHOD AND APPARATUS FOR DISPLAYING ADVERTISEMENTS
2 ON A VEHICLE

3
4 This invention relates to advertisements, and
5 relates more particularly but not exclusively to a
6 system for selectively attaching advertisements to
7 the sides of road vehicles or fixed sites in a
8 readily demountable manner, and to a method of
9 adapting road vehicles for the selective display of
10 advertisements.

11
12 At present, static exterior advertisements are
13 achieved using posters attached to a building
14 surface or a panel provided on the building surface.
15 The print medium used is typically paper which is
16 pasted to the surface using an adhesive. Such
17 advertisements require considerable effort to
18 install and remove the paper medium, printing costs
19 are relatively high and planning restrictions apply.

20
21 Furthermore, currently there are many load-carrying
22 road vehicles having substantially vertical sides

1 which are either plain, or carry minimal information
2 (e.g. merely the name of a transport company).
3 These vehicle sides are extensively exposed to the
4 sight of the general public, not least because the
5 majority of journeys of load-carrying road vehicles
6 take place on public roads that are also extensively
7 used by pedestrians and/or users of personal road
8 transport and/or passengers in public road
9 transport. Consequently, the sides of load-carrying
10 road vehicles represent a facility for mobile
11 advertising that currently tends to be used only by
12 the vehicle owners for self-advertisement. Some use
13 of the exteriors of road vehicles is known for
14 advertising by organisations other than the vehicle
15 owner, but such advertising is currently limited to
16 public transport vehicles that carry human
17 passengers rather than inanimate cargoes, and the
18 advertisements are either pasted-on paper, or in the
19 nature of bodywork painting that is substantially
20 permanent and not changeable without time-consuming
21 repainting of the vehicle.
22
23 US 5,845,423 and US 5,657,566 address the problem of
24 providing advertisements on the sides of load-
25 carrying road vehicles, but the effectiveness of
26 their solutions is hampered by the fact that the
27 vehicles need extensive structural modification in
28 the form of added rails, mounting brackets and
29 fasteners and the like, to allow the mounting and
30 removal of advertisement panels. Moreover the
31 advertisement panels themselves are complicated and
32 relatively expensive. Moreover the advertisement

1 panels can be used only with rigid sided vehicles,
2 since they do not allow simple access to the side
3 curtains of flexible sided vehicles, which provide
4 access to the load area by allowing the removal or
5 rolling up of flexible side curtains attached to the
6 frame of the vehicle.

7
8 It is an object of the present invention to provide
9 an alternative system and method for providing
10 static exterior advertisements which require less
11 effort to install or remove, reduce printing costs
12 and avoid planning restrictions.

13
14 It is a further object of the present invention to
15 provide a system and a method for enabling mobile
16 advertisements to be selectively mounted on load-
17 carrying road vehicles in a manner which is simple
18 to carry out and which is cost effective, allowing
19 the use of economical advertisement panels and the
20 requiring minimal structural alterations to a
21 vehicle to enable it to carry advertisement panels.
22 It is a further object of the invention to provide a
23 system and a method for enabling mobile
24 advertisements to be selectively mounted on both
25 rigid sided and flexible sided road vehicles.

26
27 As used in this specification, the term "vehicle"
28 refers to a road vehicle possessing substantially
29 vertical sides suitable for carrying advertisements,
30 such sides including but not being restricted to
31 permanently fixed sides, sides formed as one or more
32 panels that are demountable or hinged for providing

1 access to a cargo carried by the vehicle, and
2 curtain sides (i.e. curtains of more or less
3 flexible sheet material whose upper edges are
4 suspended from the vehicle, and whose lower edges
5 are clipped or strapped to the vehicle).

6
7 As used in this specification, the term
8 "advertisement" refers to at least one essentially
9 two-dimensional image having an impression on a
10 spectator that is primarily or wholly visual.

11
12 According to a first aspect of the present invention
13 there is provided an advertising panel for mounting
14 to a structure, the panel comprising a sheet of
15 plastic mesh material having an image applied to a
16 first side of the sheet, wherein the panel has an
17 elongate fastener provided on at least one
18 longitudinal edge, the elongate fastener having a
19 thickness greater than the sheet and being adapted
20 to engage with a corresponding slot provided on the
21 structure.

22
23 Preferably, the advertising panel is mounted to the
24 structure of a vehicle, such as a side panel of a
25 vehicle. Alternatively, the advertising panel is
26 mounted to a static structure, such as an
27 advertising hoarding.

28
29 In one preferred embodiment the elongate fastener
30 comprises a longitudinal member held within a hem of
31 the sheet. Preferably the hem is formed by folding
32 an edge of the sheet around the elongate fastener

1 and back against the sheet, then securing the edge
2 to the sheet. Securing may be carried out by
3 stitching, applying adhesive, thermal bonding, or
4 any suitable method.

5
6 In another preferred embodiment the elongate
7 fastener comprises a longitudinal member secured to
8 the sheet by an edging strip. Preferably the edging
9 strip passes around the elongate fastener and is
10 secured to each side of the edge of the sheet.
11 Securing may be carried out by stitching, applying
12 adhesive, thermal bonding, or any suitable method.

13
14 The longitudinal member is preferably flexible, for
15 example a rope, cord, rubber or plastic extrusion or
16 similar. Preferably the panel has an elongate
17 fastener provided on two opposite longitudinal
18 edges.

19
20 Preferably the sheet is flexible. Preferably the
21 sheet is of PVC, polyester or a combination thereof.
22 Preferably the mesh is provided with apertures
23 allowing air passage therethrough. Preferably the
24 sheet has an air permeability of at least 1000
25 litres per second at 100 pascal.

26
27 Preferably the sheet of the advertising panel is a
28 woven material. Preferably the warp and weft fibres
29 are bonded to each other at their intersections.

30
31 Preferably the panel is substantially rectangular.
32 In one embodiment the panel may be provided with an

1 extension piece at one or each of the two opposite
2 side edges. Preferably the extension pieces are
3 provided with securing means to allow them to be
4 wrapped around the corner of a vehicle and secured
5 to the vehicle. Preferably an extension piece is
6 provided on the leading edge of the sheet, the
7 leading edge being the edge nearest the front of the
8 vehicle when the panel is mounted on a vehicle.
9 Alternatively the leading edge of the sheet may be
10 provided with a continuous fastener which extends
11 substantially over the entire length of the leading
12 edge. In another embodiment the panel may be
13 provided with an elongate fastener as described
14 above on each of the two opposite side edges, the
15 fastener being adapted to engage with a track member
16 on the structure.

17
18 According to a second aspect of the present
19 invention there is provided a vehicle, the vehicle
20 having a wall provided with a slot or slots on the
21 exterior surface thereof, the vehicle having an
22 advertising panel mounted on said exterior surface,
23 the panel comprising a sheet of plastic mesh
24 material having an image applied to a first side of
25 the sheet, wherein the panel has an elongate
26 fastener provided on at least one longitudinal edge,
27 the elongate fastener having a thickness greater
28 than the sheet and engaged with said slot or slots
29 on said vehicle.

30
31 Preferably the advertising panel is a panel
32 according to the first aspect of the present

1 invention. Preferably the exterior surface is on a
2 side wall of the vehicle.

3
4 Preferably the slot or slots are provided in one or
5 more track members bonded to the side wall by
6 adhesive. Alternatively the track members may be
7 secured to the side wall by fixing means such as
8 bolts, screw, rivets or similar. Preferably the
9 track members are extruded members. Preferably the
10 slot or slots are shaped to allow keying of the
11 elongate fastener with the slot or slots. In one
12 preferred embodiment track members shaped to allow
13 keying of the elongate fastener are provided on the
14 upper and lower edges of the exterior surface, while
15 lateral fastening members for securing the vertical
16 side edges of the advertising panel are provided at
17 the vertical side edges of the exterior surface.
18 The lateral fastening members may be push-fit track
19 members shaped to allow reversible snap engagement
20 of the elongate fastener. Alternatively the lateral
21 fastening members may be releasable clamping members
22 which permit the clamping of the elongate fastener
23 in a plurality of positions. Alternatively the
24 lateral fastening members may be mutually engageable
25 fastening means provided on the side wall and the
26 advertising panel, such as hook and loop fasteners
27 or 3MTM Dual LockTM.

28
29 The track members may extend continuously over the
30 length of the elongate fastener. Alternatively, the
31 track members are provided as discrete track members
32 spaced at regular intervals on the vehicle..

1 According to a third aspect of the present invention
2 there is provided a vehicle, the vehicle having a
3 load bearing volume at least partially enclosed by a
4 curtain, said curtain being provided with a slot or
5 slots on the exterior surface thereof, the vehicle
6 having an advertising panel on said exterior
7 surface, the panel comprising a sheet of plastic
8 mesh material having an image applied to a first
9 side of the sheet, wherein the panel has an elongate
10 fastener provided on at least one longitudinal edge,
11 the elongate fastener having a thickness greater
12 than the sheet and engaged with said slot or slots
13 on said vehicle.

14

15 Preferably the advertising panel is a panel
16 according to the first aspect of the present
17 invention.

18

19 Preferably the slot or slots are provided in one or
20 more track members bonded to the curtain by
21 adhesive. Alternatively they may be secured to the
22 curtain by thermal bonding, ultrasonic bonding,
23 stitching, moulding or similar. Alternatively the
24 track members may be secured to the curtain by
25 fixing means such as bolts, screw, rivets or
26 similar, preferably in conjunction with a washer
27 plate on the opposite surface of the curtain.

28 Preferably the track members are extruded members.

29 Preferably the slot or slots are shaped to allow
30 keying of the elongate fastener with the slot or
31 slots. In one preferred embodiment track members
32 shaped to allow keying of the elongate fastener are

1 provided on the upper and lower edges of the
2 exterior surface, while lateral fastening members
3 for securing the vertical side edges of the
4 advertising panel are provided at the vertical side
5 edges of the exterior surface. Backing plates may
6 be provided on the interior surface of the curtain
7 with the lateral fastening members. The lateral
8 fastening members may be push-fit track members
9 shaped to allow reversible snap engagement of the
10 elongate fastener. Alternatively the lateral
11 fastening members may be releasable clamping members
12 which permit the clamping of the elongate fastener
13 in a plurality of positions. Alternatively the
14 lateral fastening members may be mutually engageable
15 fastening means provided on the curtain and the
16 advertising panel, such as hook and loop fasteners
17 or 3MTM Dual LockTM.

18
19 Preferably the track members are provided as
20 discrete track members spaced at regular intervals
21 on the vehicle.

22
23 According to a fourth aspect of the present
24 invention there is provided a method of modifying a
25 vehicle to display at least one advertising panel on
26 at least one surface of the vehicle, the panel
27 comprising a sheet of plastic mesh material having
28 an image applied to a first side of the sheet,
29 wherein the panel has an elongate fastener provided
30 on at least one longitudinal edge, the elongate
31 fastener having a thickness greater than the sheet
32 said method comprising the steps of:

1 securing one or more slotted track members in a
2 predetermined pattern on the surface of the vehicle
3 or on a curtain adapted to be mounted on the surface
4 of the vehicle, and

5 releasably attaching the advertising panel to
6 the one or more slotted track members by engaging
7 the elongate fastener in the slots provided on the
8 one or more slotted track members.

9

10 Preferably the advertising panel is a panel
11 according to the first aspect of the present
12 invention.

13

14 Preferably the advertising panel is substantially
15 rectangular having upper and lower longitudinal
16 edges and two side edges, and elongate fasteners at
17 the upper and lower longitudinal edges are engaged
18 in the slots provided on the one or more slotted
19 track members. The method may include the further
20 step of:

21 releasably attaching the side edges of the
22 advertising panel to one or more releasable clamping
23 members.

24

25 Preferably at least one side edge is provided with
26 an elongate fastener, and the side edge is attached
27 to the one or more releasable clamping members by
28 clamping the elongate fastener in a selected one of
29 a plurality of positions, to adjust the lateral
30 tension in the advertising panel. Push-fit track
31 members may be used instead.

32

1 According to a fifth aspect of the present invention
2 there is provided an advertising panel for mounting
3 to a structure, the panel comprising a sheet of
4 plastic material having an image applied to a first
5 side of the sheet, wherein the panel has a plurality
6 of resilient attachment means provided along at
7 least one edge of the panel. Preferably the panel
8 is of mesh material.

9
10 According to a sixth aspect of the present invention
11 there is provided a vehicle having a rear door, the
12 rear door having mounted thereon an advertising
13 panel according to the fifth aspect of the present
14 invention. Preferably the rear door is a roller
15 shutter door. Preferably the rear door has
16 attachment fixings secured thereto, each attachment
17 means being attached to an attachment fixing.
18 Preferably the resilient attachment means are
19 adapted to allow elastic extension of the attachment
20 means when the roller shutter door is in its rolled
21 state with the advertising panel mounted thereon.

22
23 Preferably the resilient attachment means comprises
24 elastic tension members of natural or synthetic
25 rubber. These may be in the form of bands, loops,
26 rods or any suitable form. They may pass through an
27 eyelet in the panel, or they may be attached to the
28 panel by any suitable securing means, including
29 fasteners, rivets, adhesive and stitching.

30
31 Preferably the sheet is flexible. Preferably the
32 sheet is of PVC, polyester or a combination thereof.

1 Preferably the mesh is provided with apertures
2 allowing air passage therethrough. Preferably the
3 sheet has an air permeability of at least 1000
4 litres per second at 100 pascal.

5
6 Preferably the sheet of the advertising panel is a
7 woven material. Preferably the warp and weft fibres
8 are bonded to each other at their intersections.

9
10 Embodiments of the invention will now be described
11 by way of example only, with reference to the
12 drawings in which:

13
14 Fig. 1 shows a curtain-sided lorry provided with
15 slotted track members to allow attachment of an
16 advertising panel according to the invention;

17
18 Fig. 2 shows a rigid-sided lorry provided with
19 slotted track members to allow attachment of an
20 advertising panel according to the invention;

21
22 Fig. 3 shows the lorry of Fig. 1 with an advertising
23 panel attached;

24
25 Fig. 4 shows the lorry of Fig. 2 with an advertising
26 panel attached;

27
28 Fig. 5 shows a slotted track member and backing
29 plate used to attach an advertising panel according
30 to one embodiment of the invention;

31

1 Fig. 6 shows a sectional view of the slotted track
2 member and backing plate of Fig. 5 attached to a
3 curtain;

4

5 Fig. 7 shows a releasable clamping member and
6 backing plate used to attach an advertising panel
7 according to another embodiment of the invention;

8

9 Fig. 8 shows a sectional view of the releasable
10 clamping member and backing plate of Fig. 7 attached
11 to a curtain;

12

13 Figs. 9a to 9h show sectional views of slotted track
14 members and the attachment of the edge of the
15 advertising panel according to various further
16 embodiments of the invention;

17

18 Figs. 10 and 11 show alternative edge arrangements
19 for the panels of Figs. 1 to 9;

20

21 Fig. 12 shows a cross-sectional view of a push-fit
22 track member which can be used to secure the side
23 edges of the panels of Figs. 1 to 9;

24

25 Fig. 13 shows a vehicle having a roller shutter door
26 equipped to carry an advertising panel according to
27 the invention;

28

29 Figs. 14a and 14b are partial sectional views of the
30 roller shutter door of Fig. 13 with an advertising
31 panel attached in the unrolled and rolled positions;

32

1 Fig. 15 shows an attachment means for the
2 advertising panel of Fig. 14a; and

3
4 Fig. 16 shows various alternative attachment means
5 for the advertising panel of Fig. 14a.

6
7 Fig. 1 shows a vehicle in the form of a lorry 10
8 having a load area 12 which is covered on each
9 longitudinal side by a curtain 14. The curtain 14
10 is secured to the vehicle 10 at its upper edge and
11 is tensioned in a conventional manner by means of
12 tensioning straps 18 which connect the lower edge of
13 the curtain to the vehicle. The curtain 14 and
14 straps 18 are well known in the art and may be of
15 any suitable flexible material. Typically the
16 curtain 14 is of reinforced PVC while the straps 18
17 are of nylon webbing.

18
19 The surface of the curtain 18 has a number of
20 slotted track members 30 fixed to it, seen more
21 clearly in Figs. 5 and 6, arranged in an upper row
22 and a lower row. Typically these coincide with
23 alternate vertical strengthening straps 18 of the
24 curtain 14. They may be fixed by adhesive 42 or
25 other suitable means of securing the members to the
26 curtain, including fixing means such as bolts,
27 screw, rivets, staples or similar. In practice the
28 combination of stainless steel machine screws which
29 pass through apertures 44 in the track member 30 and
30 engage with integral nuts 45 in a backing plate 31
31 has been found to be an effective fastening means.
32 Alternatively the slotted track members may be

1 secured to the curtain by thermal bonding,
2 ultrasonic bonding, stitching, moulding or similar.
3 The slotted track members 30 are of moulded or
4 extruded plastic and various other non-limiting
5 shapes are shown in Figs. 9a to 9f. The members
6 have a cylindrical passage 34 extending therethrough
7 and a slot 36 in one side, allowing access to the
8 passage 34.

9
10 The slotted track members 30 are selected and
11 positioned to engage with elongate fasteners 22
12 provided on the longitudinal edges 24 of an
13 advertising panel 20, as shown in Figs. 5, 12 and
14 13.

15
16 Two vertical push-fit track members 40, shown in
17 Fig. 12, are also secured to the curtain, one at
18 each side. These are secured to the curtain in the
19 same way as the slotted track members 30, with
20 backing plates (not shown) if appropriate.

21
22 Fig. 2 shows a lorry 10 having a load area 12 which
23 is covered on each longitudinal side by a rigid wall
24 16. The arrangement of slotted track members 30 on
25 the rigid wall 16 can be the same as that described
26 above with respect to the curtain 14 of Fig. 1,
27 although in Fig. 2 two continuous slotted track
28 members 32 are shown, one upper member and one lower
29 member, having the same cross-section as the shorter
30 track member illustrated in Figs. 5 and 6.
31 Continuous track members 32 typically comprise a
32 number of 3 metre long track members 32 fixed in

1 abutting relationship. The members 32 are bonded to
2 the wall by means of high bond double sided adhesive
3 tape 42 or other adhesive, although it is to be
4 understood that other suitable means of securing the
5 members to the wall may be used, including fixing
6 means such as bolts, screw, rivets, staples or
7 similar. As in Fig. 1, two vertical push-fit track
8 members 40 are also secured to the wall, one at each
9 side. These are secured to the wall in the same way
10 as the slotted track members 32.

11

12 Fig. 3 shows the curtain sided lorry 10 of Fig. 1
13 with an advertising panel 20 fixed to the curtain 14
14 using fasteners 22 which engage with the slotted
15 track members 30 and the push-fit track members 40.
16 The panel 20 is described in more detail below. The
17 edges 24 of the panel 20 are threaded through the
18 slots 36 starting at one end of the lorry 10. While
19 Fig. 3 shows the panel 20 on a side wall of the
20 vehicle 10, it is to be understood that the panel
21 may be fitted to any surface of the vehicle 10,
22 including the rear surface or the roof. The panel
23 20 is typically one metre shorter than the curtain
24 14 in length, and 2 metres in height.

25

26 Fig. 4 shows the rigid sided lorry 10 of Fig. 2 with
27 an advertising panel 20 fixed to the wall 16 in the
28 manner described above with reference to Fig. 3.
29 The panel 20 is typically dimensioned to cover most
30 of the surface area of the wall 16.

31

1 In both cases the vertical edges 26 of the panel 20
2 are engaged with the resilient extruded PVC push-fit
3 track members 40 as shown in Fig. 14. However the
4 vertical edges 26 may alternatively be attached by
5 any other suitable means. For example, a strip of
6 hook and loop fastener may be provided at each
7 vertical edge of the advertising panel 20 to engage
8 with a corresponding strip of hook and loop fastener
9 provided on the wall 16 or curtain 14. Instead of
10 hook and loop fastener other releasable fasteners
11 may be used, such as 3MTM Dual LockTM or releasable
12 clamping members 80, described below. Alternatively
13 the plastic mesh material of the panel 20 may be
14 extended around the corner of the vehicle 10 and
15 securing it to the structure of the vehicle in any
16 suitable way.

17

18 The construction of the advertising panel 20 will
19 now be described with reference to Figs. 5, 6, 10
20 and 11. The panel comprises a sheet 28 of plastic
21 mesh material. Typically the mesh material
22 comprises a polyester or polypropylene base fabric
23 coated with PVC. The base fabric may have between 3
24 and 10 (preferably 5) threads per cm in both warp
25 and weft directions. Flexible plasticised PVC is
26 applied to both sides to produce a material having a
27 weight of between 100 and 800 g/m², preferably
28 between about 200 and 550 g/m², such that the warp
29 and weft fibres are bonded to each other at their
30 intersections.

31

1 The apertures in the mesh allow an air permeability
2 of between 1000 and 6000 litres/second at 100
3 pascal, preferably about 2800 litres/second. A
4 suitable mesh is that sold by VUFLEX Digital under
5 the name VUFLEX Digital 550, although it is to be
6 understood that any suitable plastic mesh may be
7 used. The air permeability ensures that the panel
8 remains flat against the supporting surface, whether
9 it be a solid wall of a vehicle or a curtain. Air
10 pressure either side of the panel is equalised,
11 thereby preventing flapping of the panel against the
12 supporting surface.

13
14 The mesh must be capable of being printed on, to
15 provide an advertising image on one side. Any
16 suitable printing process may be used, such as laser
17 printing or screen printing. The apertures must be
18 small enough such that the effect of the advertising
19 panel when mounted on a solid surface and viewed
20 from a distance is of an opaque panel. In a
21 particular embodiment the plasticised warp and weft
22 fibres have a width of about 1 mm, while the
23 apertures are about 1 mm square. An opaque effect
24 is produced if the apertures make up about 25% or
25 less of the area of the panel. If the apertures
26 make up more than about 35% of the area of the panel
27 the opacity effect is diminished.

28
29 Reinforcing strips (not shown) of reinforced PVC or
30 similar material may be bonded to any or all of the
31 edges of the mesh sheet 28 to prevent the
32 advertising panel 20 from tearing or stretching in

1 use. The reinforcing strips may be bonded by
2 adhesive or by ultrasonic welding. The strips may
3 be of polypropylene or polyester scrim coated with
4 PVC for easy joining to the mesh sheet 28. The
5 thickness of the strips is chosen so that the sheet
6 28 can be subject to the chosen printing process
7 even with the strips attached. Typically the
8 reinforcing strips are between 5 and 15 cm wide, and
9 extend to the perimeter of the sheet 28.

10

11 Elongate fasteners 22 are bonded to the longitudinal
12 edges 24 of the mesh sheet 28, with or without
13 reinforcing strips, by wrapping the edge of the
14 sheet around the fastener 22 and stitching with
15 thread 56 or bonding to form a hem 50, as in Fig.
16 12, or by attaching and bonding an edge strip 52, as
17 in Fig. 13, of any suitable plastic material.

18 Thermal or adhesive 58 bonding may be used. The
19 elongate fastener 22 comprises a cord or rope 54, or
20 extruded flexible plastic or rubber, held in the hem
21 50 or edge strip 52. The cord or rope 54 may be
22 free to slide in the hem 50 or edge strip 54, or may
23 be restrained or bonded to the hem 50 or edge strip
24 52. Similar elongate fasteners 22 are provided on
25 the vertical edges 26 of the panel if push-fit track
26 members 40 or releasable clamping members 80 are
27 used to secure the vertical edges. The edge strip
28 52 may be of the same material as the reinforcing
29 strips described above.

30

31 The panel is installed on a vehicle 10 by threading
32 the elongate fasteners 22 at the top and bottom

1 edges of the panel 22 into the slotted track members
2 30,32 simultaneously and pulling the panel
3 horizontally until it extends from one vertical side
4 to the other of the supporting surface. The
5 vertical edges of the panel are then secured using
6 any suitable securing means.

7
8 It has been found that it is advantageous to provide
9 a continuous fastener, preferably a fastener 22
10 which can engage with the push-fit track member 40
11 or a fastener such as a hook and loop fastener (not
12 shown), extending all the way along the leading edge
13 of the advertising panel 20. The leading edge is
14 that edge which is nearer the front of the vehicle
15 in use. The use of a continuous fastener engaging
16 with a corresponding continuous fastener on the
17 vehicle 10 prevents the leading edge of the panel 20
18 lifting away from the vehicle at any point, and
19 helps to hold the panel 20 to the wall 16 or curtain
20 14 without flapping. The same effect can be
21 achieved by continuing the panel around the corner
22 of the vehicle and securing it in place by any
23 suitable means to the end wall of the vehicle.

24
25 Particular arrangements of fasteners are provided
26 for particular models of vehicles 10 and their
27 corresponding advertising panels 20. For example a
28 Transit® van might carry a particular size of
29 advertising panel 20; panels for these vans would
30 carry a particular pattern of fasteners.
31 Corresponding fasteners on Transit® vans would be
32 fixed to the side wall 16 of the van in a

1 corresponding pattern using a particular Transit®
2 stencil. Similarly, a particular make of trailer
3 might carry a particular larger size of advertising
4 panel 20; panels for these trailers would carry a
5 different particular pattern of fasteners.
6 Corresponding fasteners on the trailers would be
7 fixed to the curtain 14 or side wall 16 of the
8 trailer in a corresponding pattern using a
9 particular trailer stencil.

10

11 Referring to Figs. 5 and 6, there is shown a
12 discrete slotted track member 30. It is to be
13 understood that the continuous track member 32 has
14 the same cross-section. The backing plate 31 used
15 to connect the track member 30 to a curtain 14 by
16 sandwiching the curtain 14 between the track member
17 30 and backing plate 31 has threaded sockets 45
18 which correspond in position to the apertures 44 in
19 the track member 30. Screws or bolts (not shown)
20 are used to secure the track member 30 and backing
21 plate 31 together. Conventional bolts and nuts may
22 be used instead of threaded sockets. Corresponding
23 holes in the curtain 14 can be pre-formed or can be
24 formed by insertion of the screws into the apertures
25 44.

26

27 Referring to Figs. 9a to 9h, there are shown
28 alternative cross-sectional profiles 38a-h of the
29 discrete or continuous slotted track members 30, 32.
30 Profiles 38a-d and 38h have the slot 36 in a side
31 face, while profiles 38e-g have the slot 36 in a
32 lower face so that the advertising panel 20 hangs

1 straight, eliminating wear. Profiles 38a and 38b
2 are attached by bonding using adhesive 42 or
3 similar, while profiles 38c-h are attached using
4 fasteners (not shown) which pass through apertures
5 44. A washer plate (not shown) may be used with
6 nuts and threaded fasteners to secure the profiles
7 38c-h to a curtain 14, or conventional fasteners may
8 be passed through the apertures 44 to secure the
9 profiles 38c-h to a rigid wall 16.

10

11 In the embodiment of Fig. 9h screw holes 44 for
12 securing profile 38h are provided in the passage 34,
13 so that they remain hidden in use. Light fittings
14 46 are provided at spaced intervals along the track
15 member for illumination of the advertising panel 20.

16

17 Referring to Figs. 7 and 8, there is shown a
18 releasable clamping member 80 which can be used
19 instead of the push fit track member 40 to secure
20 the lateral edges of the advertising panel 20, which
21 are provided with an elongate fastener 22 as
22 described above with reference to Figs. 3, 4, 10 and
23 11. The clamping member 80 comprises an upper plate
24 82 and a lower plate 84 joined by a hinge 86. The
25 upper and lower plates 82, 84 have corresponding
26 detent portions 88, 90 which engage with each other
27 in a snap fit to close the clamping member.

28

29 The upper and lower plates 82, 84 each have a ribbed
30 surface 92 which can accommodate the elongate
31 fastener 22 in a plurality of positions, such that
32 the advertising panel 20 can be tensioned laterally

1 and held in the position required to maintain
2 tension. In this way the system can accommodate
3 tolerances in the overall width of the advertising
4 panel 20 or in the position of the clamping members
5 80 while still ensuring that the advertising panel
6 20 remains flat against the surface to which on it
7 is mounted. The upper plate 82 has a handle portion
8 94 and a closure flange 96 which holds the mesh 28
9 of the panel 20 against the curtain 14 or wall 16.
10 The clamping member can be secured to a curtain 14
11 using a backing plate 98 in the same way as
12 described above with reference to the track member
13 30 and backing plate 31. The upper and lower plates
14 82, 84, like the track members 30, are of plastic
15 such as polypropylene, and can be formed by
16 extrusion.

17 In the embodiments described above, the advertising
18 panel 20 of the invention has been described with
19 reference to its mounting on a vehicle. However, it
20 is to be understood that the advertising panel can
21 be mounted on a fixed structure, such as a building
22 or an advertising hoarding. In such cases slotted
23 track members of the type herein described may be
24 used to secure the advertising panel to the fixed
25 structure. However, it is to be understood that
26 suitable slots may be provided in other elements
27 attached to the structure, and the invention is not
28 to be limited to advertising panels mounted using
29 slotted track members or releasable clamping members
30 as described herein. In fixed or static structures
31 or where the effects of air movement relative to the

1 advertising panel are not significant, the plastic
2 mesh may be replaced by a solid plastic sheet.

3

4 A method of attaching an advertising panel 20 to the
5 rear of a vehicle which may be provided with a
6 roller shutter door is now described with reference
7 to Figs. 13 to 16. A vehicle 10 has a rear wall 60
8 having a roller shutter door 62. Attached to the
9 shutters of the door 62 at four corners are
10 attachment fixings 66, comprising a plate 70, a loop
11 72 and apertures 74 for fasteners (not shown) such
12 as screws, bolts, rivets or the like. An
13 advertising panel 20 of the type described above
14 with reference to Figs. 1 to 9 is attached to the
15 attachment fixings 66 by means of four resilient
16 attachment means 64, of natural or synthetic rubber.
17 Fig. 16 shows four possible shapes for the
18 attachment means 64a-d, but is not to be construed
19 as limiting on the shape. Moreover it is to be
20 understood that more than four attachment means 64
21 may be used, or alternatively more or fewer
22 resilient attachment means 64 may be used in
23 conjunction with some other means of fastening, such
24 as hook and loop fasteners (not shown) or the slot-
25 engaging elongate fasteners 22 described above.

26

27 In the embodiment of Figs. 13 to 16 the advertising
28 panel can be used with resilient attachment means 64
29 only, so that the elongate fasteners 22 can be
30 omitted. The resilient attachment means 64 allow
31 stretching, so that when the roller shutter door 62
32 is opened by rolling the shutters 61 around a spool

1 63, as shown in Fig. 14b, the attachment means 64
2 become elongated to allow for the increased
3 effective length between the top and bottom
4 attachment fixings 66 resulting from the separation
5 of adjacent shutters 61.

6
7 Modifications and variations of the above-described
8 embodiments can be adopted without departing from
9 the scope of the invention.

10